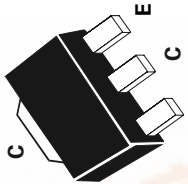


SOT89 PNP SILICON PLANAR MEDIUM
POWER HIGH PERFORMANCE TRANSISTOR

ISSUE 3 - NOVEMBER 1995

FCX591

PARTMARKING DETAIL - P1
COMPLEMENTARY TYPE - FCX491



ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CB0}	-80	V
Collector-Emitter Voltage	V_{CE0}	-60	V
Emitter-Base Voltage	V_{EB0}	-5	V
Peak Pulse Current	I_{CM}	-2	A
Continuous Collector Current	I_C	-1	A
Base Current	I_B	-200	mA
Power Dissipation at $T_{amb}=25^{\circ}\text{C}$	P_{tot}	1	W
Operating and Storage Temperature Range	T_j, T_{stg}	-65 to +150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^{\circ}\text{C}$).

PARAMETER	SYMBOL	MIN.	MAX.	UNIT	CONDITIONS.
Breakdown Voltages	$V_{(BR)CBO}$	-80		V	$I_C = -100\mu\text{A}, I_E = 0$
	$V_{(BR)CEO}$	-60		V	$I_C = -10\text{mA}, I_B = 0^*$
	$V_{(BR)EBO}$	-5		V	$I_E = -100\mu\text{A}, I_C = 0$
Collector Cut-Off Current	I_{CBO}		-100	nA	$V_{CB} = -60\text{V}$
Collector -Emitter Cut-Off Current	I_{CES}		-100	nA	$V_{CE} = -60\text{V}$
Emitter Cut-Off Current	I_{EBO}		-100	nA	$V_{EB} = -4\text{V}, I_C = 0$
Saturation Voltages	$V_{CE(sat)}$	-0.3 -0.6		V V	$I_C = -500\text{mA}, I_B = -50\text{mA}^*$
					$I_C = -1\text{A}, I_B = -100\text{mA}^*$
	$V_{BE(sat)}$	-1.2		V	$I_C = -1\text{A}, I_B = -100\text{mA}^*$
Base-Emitter Turn-on Voltage	$V_{BE(on)}$		-1.0	V	$I_C = -1\text{A}, V_{CE} = -5\text{V}^*$
Static Forward Current Transfer Ratio	h_{FE}	100			$I_C = -1\text{mA}, V_{CE} = -5\text{V}^*$
		100	300		$I_C = -500\text{mA}, V_{CE} = -5\text{V}^*$
		80			$I_C = -1\text{A}, V_{CE} = -5\text{V}^*$
Transition Frequency	f_T	15			$I_C = -2\text{A}, V_{CE} = -5\text{V}^*$
		150		MHz	$I_C = -50\text{mA}, V_{CE} = -10\text{V}, f = 100\text{MHz}$
Output Capacitance	C_{obo}		10	pF	$V_{CB} = -10\text{V}, f = 1\text{MHz}$

*Measured under pulsed conditions. Pulse width=300 μs . Duty cycle $\leq 2\%$
For typical Characteristics graphs see FMMT591 datasheet

查询FCX591供应商

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